AUTHOR INDEX

Volume 4

Ahmad, M. Sharif, 15, 77
Andersen, A.C., 1, 41
Anderson, Brian, 153
Arbeiter, K., 11

Barb, C.R., 111
Bushnell, R.B., 125
Busch, R.D., 41

Daniels, R.W., 23
Dukelow, W.R., 23

Erwin, J., 153

Fowler, David, 59

Godard-Siour, Catherine, 157, 163
Guthrie, H.D., 69

Harlan, G.P., 125
Hendrickx, A.G., 141
Hoefer, J.A., 23

Jöchle, W., 1

Kendrick, J.W., 125
Kirkpatrick, R.L., 101
Kitts, W.D., 15, 77
Krishnamurti, C.R., 15, 77
Kronlund, Nadja, 125

Lamond, D.R., 1

Mellin, T.N., 41
Mesnil du Buisson, F. du, 163
Moody, E.L., 145
Murphy, W.F., Jr., 101

Nellor, J.E., 23

O'Shanny, W.J., 41

Poncelet, G.R., 145

Rexroad, C.E., Jr., 111

Scanlon, P.F., 101
Swift, Brinton L., 59

Testart, J., 157, 163

Wildt, D.E., 23

SUBJECT INDEX

Volume 4

Abortifacient
    Mestranol, 1
Abortion
    bitch, 1
    cattle, due to *Anaplasma marginale*, 59
Anaplasma marginale, 59
    as a cause of abortion
Anesthetic sleep time, 182
Artificial insemination
    mink, 77
    cottontail rabbit, 101
    pigs, 69

Bitch
    Mestranol, abortifacient, 1
Blastocysts, 165
Bonnet monkey, 141

Candida tropicalis
    in frozen semen, 125
Cattle
    induced parturition, 145
Cervical mucus, ferning, 203
Chlorcyclizine, 177
Chlormadinone acetate
    treatment of uterine hemorrhage, 12
Chlormadinone (CAP)
    delay parturition, 23
Contamination
    Semen, 125
Corpus luteum
    effect of enzyme inducing drugs, 177
Cytology, vaginal, at estrus, 203

Diethylstilbesterol
    to prolong gestation, 24
Diphenylhydantoin, 177
Dystocia, 146

Electroejaculation
    mink, 18
Elephant, African (*Loxodonta africana*), 203
Embryos
    degenerated, 3
    porcine, 73
Endometritis
    caused by *Candida tropicalis*, 125

Enzyme inducing drugs, 177
Estradio-benzoate
in estrus synchronization regimes, 69
Estradiol valerate, 164
Estrous cycle
African elephant, 203
in ewe following enzyme inducing drugs, 177
synchronization, 69
Estrus, African elephant, 203
Ewe
prepuberal ovulation, 195
uterus, 111

Fertility
after estrus synchronization, 69
ewe, following enzyme inducing drugs, 177
prepuberal ewe, 195
Fertilization
in cottontail rabbit, 104
Fetal death
caused by *Candida tropicalis*, 125
in prolonged gestation in pigs, 23
Fetal disease
Anaplasma marginale, 59
Fetal distress
in prolonged gestation, 27
Fetal survival
following delayed parturition, 23
Flumethasone
for induction of parturition, 145
Follicles
Bonnet monkey (*Macaca radiata*), 141
growth in prepuberal heifers, 41
after treatment with GnRH, 41
prepuberal ewe after PMSG, 195
Follicle stimulating hormone (FSH)
induction of ovulation, 101
levels following administration of GnRH, 46
Frozen semen
mink, 77

Gestation, prolonged
by M.A.P., 23
in ewes by progestins, 24
in pigs, 23
Gonadotropin, 183, 177
to induce ovulation, 101
Gonadotropin releasing hormone (GnRH), synthetic
follicular growth, heifers, ewes, 41
in prepuberal heifers and ewes, 41

Human Chorionic Gonadotropin (HCG)
in prepuberal heifers and ewes, 41
prepuberal ovulation, 195

Infertility
related to contaminated semen, 125
Inovulation
nonsurgical, 163

Lamond, Donald Ross 1928-1975, 39
Litter size
effect of prolonged gestation, 26
Liver
effects of enzyme inducing drugs, 177
Luteal cyst, 46
Luteal regression
delayed by estradiol benzoate, 69
Luteinized follicle, 46
Luteinizing hormone (LH), 41
induction of ovulation, 101
Luteolytic effect, 69

Macaca nemestrina, 153
Macaca radiata, 141
M.A.P. (6-methyl-17 acetoxy-progesterone)
to prolong gestation, 23
Medroxyprogesterone acetate
treatment of uterine hemorrhage, 12
Mestranol
abortifacient in the bitch, 1
Microsome, 177
Milk, let down, 29
Mink
artificial insemination, 15
freeze preservation of spermatozoa, 77
semen extender, 15
semen, frozen, 15
semen studies, 77
Morulae, 165

Oocytes, 141
Ova
recovery, 104
recovery, transvaginal, 157
Ovaries
in prepuberal heifers & ewes treated with GnRH, HCG, PMS, 41
prepuberal ewe after PMSG, 195
sows, 27
Ovary
Bonnet monkey, 141
Ova transfer
nonsurgical, 157, 163

Oviduct, fimbria, 195
Ovulation
    after treatment with GnRH, 41
    cottontail rabbit, 101
    following gonadotropin treatment, 101
    induced, 101, 195
    in prepuberal heifers and ewe, 41
    prepuberal, 195
Oxytocin, 29

Parturition
    delayed in pigs, 23
    induced, 145
    scheduled, 145
Phenobarbital sodium, 177
Phenylbutazone, 177
Placenta
    bitch, 6
Placental sites
    subinvolution, 11
    treatment, 11
Pigtail monkey (*Macaca nemestrina*), 153
Postpartum
    bitch, 11
    cow, 11
Pregnancy
    cottontail rabbit, 101
Pregnant mare serum gonadotropin (PMSG)
    prepuberal ovulation, 195
    to ovulate prepuberal heifers & ewes, 42
Prepuberal
    ewes, 41
    heifers, 41
    fertility, 195
    ovulation induced, 195
Prolactin, 74
Prostaglandin $F_{2\alpha}$
    to synchronize estrus
Progesterone
    delay parturition, 23
    implants, 164
    plasma level in pregnant bitch, 7
    plasma level in pregnant sows, 23
    prepuberal ovulation, 195
Progestins
    treatment, persistant uterine hemorrhage, 11
Prostaglandin
    effect on uterine contraction, 11

Radioimmunoassay, 179
    LH, 42
    progesterone, 70
Retained placenta, 145

Semen
    extender for mink, 77
    hygenic collection technique, 125
    microbiologic contamination, 125
    mink, collection, preservation, 15
Sex skin, 153
Sleep time, 182
Steroids, 177
Superovulation, 157, 163
Sylvilagus floridanus, 101

Temperature, ambient and fertility, 163
Timed-mating, in Pigtail monkeys, 153
Twinning, cattle, 163

Uterine hemorrhage, bitch and cow
    treatment with progestins, 11
Uterus
    effect of prostaglandin on contractions, 11
    recovery of ova, 157

Vaginal cytology at estrus, 203
Vaginal ova transplantation, 163
Vaginal recovery of uterine eggs, cow, 157

SUBJECT INDEX - ABSTRACTS

Volume 4

Abortion
induction in cattle, 33
with $PGF_{2\alpha}$, 33
with estradiol valerate, 33
ACTH
rise in plasma testosterone, 172
Androgen
light interaction, in the ram, 94
Androgen transport
in the deferential vein, 215
in dog and rat, 215
Antispermatozoa immunoglobulin G
after vasectomy in men, 217
Antler cycles
abnormal,due to stress, in deer, 173
Arachidonic acid
bovine corpus luteum function, 92
Artificial insemination
effect of clitorial massage on conception, 69
heterospermic, effect on fertility in the bovine, 211
in cattle, 34
in sows, 36

Boar
semen characteristics after seminal vesicle removal, 215
testosterone rise in plasma after ACTH, 172
Breeding season
in the European hare, in Scotland, 216
Buffalo
corpus luteum enucleation, 34
effects of FSH and HCG, 34
placentomas during mid-pregnancy, 89
Bull
catheterization of the ductus deferens for collection of epididymal spermatozoa, 135
Hyaluronidase activity in seminal plasma, 212
oxytocin effect on ejaculate composition, 134

Calves
prepuberal, 212
gonadotrophin treated, 212
follicular development, 212
oocyte maturation, 212
ovulations, 212
Caraboa (*Bubalis bubalis*)
placentomas in mid-pregnancy, 89
Clitoral massage
effects on conception, 169

Colostrum
effects of Glucocorticoid on immunoglobulins, 169
Corpus luteum enucleation
in buffalo cows, 34
Cow
arachidonic acid, and corpus luteum function, 92
artificial insemination, and natural service, aspects of fertility, 34
clitoral massage after artificial insemination, 169
control of time of estrus, 91
cycle synchronization with a PG analogue, ICI 80966, 133
dystocia, effect on future fertility, 132
estrogen and progesterone plasma levels in heifers, after PMSG and $PGF_{2\alpha}$
fertility after luteolysis with the PG analogue ICI 80966, 93
fertility surveillance by milk progesterone determination, 134
FSH in plasma: during the cycle and the postpartum period, 131
GnRH treatment of infertility (ovarian cysts), 131
Glucocorticoid effects on colostrum, 169
heterospermic insemination, effects on fertility, 211
HCG, effects on follicular activity, 211
implantation steps, contacts between trophoblast and endometrium, 89
induction of abortion with $PGF_{2\alpha}$ and estradiol valerate, 33
induction of superovulation, 91
luteolysis, estrus and ovulation, after $PGF_{2\alpha}$, 90
multiple ovulations after PMSG and $PGF_{2\alpha}$, 132, 133
orientation of fetuses in utero, 34
productive lifespan of dairy cows in India, 213
progesterone in milk: diagnosis of pregnancy, infertility and therapeutic success, 134, 170
Prostaglandin $F_{2\alpha}$ levels in endometrium, and plasma, 92
reproductive efficiency, 33
surveillance of ovulation and electric resistance of vaginal secretions along with artificial insemination, 135

Deer
abnormal antler cycle due to stress, 173
Deermouse (*Peromyscus maniculatus* g.)
reproductive performance in the laboratory, 173
Diagnostic aid
plasma progesterone in sows, 36
Dog, female
mammary gland morphology during pregnancy and lactation, 137
pituitary, anterior, morphology during pregnancy and lactation, 138
Dog, male
androgen transport in the deferential vein, 215
phases of spermatogenesis, 137
spermatology, 136, 137
Ductus deferens, catheterization in the bull: collection of epididymal spermatozoa, 135

Dystocia in cows, effects on future fertility, 132

Ejaculate, bull
    oxytocin effects on composition, 134
Embryo count
    number in the European hare, 216
Endometrium, cows
    during implantation, 89
    content of prostaglandin F_2, 92
Epididymal spermatozoa
    collection method in bulls, 135
Estrogen, in bovine blood, after PMSG and $PGF_{2\alpha}$, 132
    false pregnancy and pyometra in the bitch, 95
Estrus induction
    in the ewe lamb, with progestins and PMSG, 171
    in heifers, after $PGF_{2\alpha}$ treatment, 90
    synchronization: See synchronization of estrus
Ewe
    factors influencing embryo survival, 171
    mating behaviour and lambing performance after synchronization with a progestin, 214
    Prostaglandin $F_{2\alpha}$ effect on spermatozoa transport, 35
    ram to ewe ratio: effect on mating behaviour and lambing performance, 214

Fertility
    in cattle, after AI and natural service, 34
    surveillance by milk progesterone determinations, 134, 170
Fetuses
    in cattle, orientation in utero, 34
Follicles
    effects of HCG, 211
    in gonadotrophin treated prepuberal calves, 212
FSH, effects on fertility, 34
    plasma levels during cycle and the postpartum period, 131

GnRH therapy in bovine infertility (ovarian cysts), 131
Gorillas, captives
    sexual cyclicity, 216
Granulosa cell tumor, 35

Hare
    European, embryo count, 216
    breeding season, 216
HCG
    effects on follicular activity, 211
HMG and HCG, in the rhesus monkey, 37
Hyaluronidase activity in seminal plasma in bulls, 212

Implantation, 89
Indomethacin, 37
Infertility, treatment with GnRH, 131

Lactation
morphology of the canine mammary gland, 137
anterjor pituitary, 138
in the miniature pig, 136
plasma LH and progesterone, 136
Lambing performance, after estrous cycle synchronization, 214
Lambs, prepuberal, ovulations and estrus after progestins and PMSG, 171
Light - androgen interaction, in the ram, 94
Luteinizing hormone
photoperiodic control in the ram, 94
Luteolysis
from PG analogue ICI 80966 in heifers, 93
after $PGF_{2\alpha}$ in heifers, 90

Mammary gland, bitch
during pregnancy and lactation, 137
Mare: Granulosa cell tumor, 35
Mating behaviour, ewe
after cycle synchronization with a progestin, 214
Men
circulating antispermatozoa immunoglobulin G after vasectomy, 217
Mouse
selected for small litter size, 174

Nutrition
effects on estrus and ovulation in prepuberal lambs, 171

Oocyte maturation, in gonadotrophin treated prepuberal lambs, 212
Ovulation
control in cows, 91
induced by HMG-HCG in the rhesus monkey, 37
in gonadotrophin treated prepuberal calves, 212
in progestin and PMSG treated prepuberal lambs, 171
multiple, in heifers, after PMSG and $PGF_{2\alpha}$, 132, 133
surveillance in dairy cows, 135
Oxytocin, effect on ejaculate composition in bulls, 134

Parturition, miniature pigs: Plasma LH and progesterone levels, 136
Photoperiodicity, control of LH release in the ram, 94
Pituitary, anterior, morphology during pregnancy and lactation, 138
Placentomas, in mid-pregnancy, in water buffalos, 89
PMSG and $PGF_{2\alpha}$, effects on estrogen and progesterone plasma levels in heifers, 132
induction of multiple ovulations in heifers, 132, 133
Pregnancy
false, in the bitch, 95
blood levels of unconjugated estrogens and progesterone, 95
and morphology of the mammary gland, 137
in mice selected for small litter size, hormone levels and effects, 174

Pregnancy (continued)
anterior pituitary gland in the bitch, 138
orientation of fetuses in utero, 34
Test: milk progesterone in dairy cows, 134, 170
Progesterone
in bovine plasma, after PMSG and $PGF_{2\alpha}$, 132
in the plasma of the bitch, with false pregnancy and pyometra, 95
in the plasma of cows as a diagnostic aid, 134, 170
in the plasma of sows, as a diagnostic aid, 36
in the plasma of sows, before parturition and during lactation, 136
Prostaglandin analogue ICI 80966, 92, 133
Prostaglandin $F_{2\alpha}$
effect on sperm transport in the ewe, 35
effect on ultrastructure of corpora lutea in the ewe, 213
induction of abortion in cattle, 33
levels in bovine endometrium, and plasma, 92
luteolysis, estrus and ovulation in heifers, 90
PMSG induced multiple ovulations, in heifers, 132, 133
Pyometra, bitches, estrogen and progesterone levels, 95

Rabbits, maternal influence on the sex ratio, 138
Ram, photoperiodic control of LH release, 94
Rat, androgen transport in the deferential vein, 215
Reproductive efficiency in cows, 33
Rhesus monkey
effect of indometacin on HMG-HCG induced ovulation, 37

Semen, boar
after seminal vesicle removal, 215
Seminal vesicles
effect on semen characteristics, 215
Service, natural and artificial, 34
Sexual cyclicity, in captive gorillas, 216
Sex ratio
maternal influence in rabbits, 138
Spermatogenesis, dog, 136
Spermatology, dog, 137
Spermatozoa integrity and hyaluronidase activity, 212
Spermatozoa, transport, effects of $PGF_{2\alpha}$ in the ewe, 35
Sow
breeding efficiency, of one or two inseminations, 36
plasma progesterone determination as a diagnostic aid, 36
progesterone and LH in plasma before parturition and during lactation, 136
Stallion
testicular biopsy, 135
Superovulation, cattle, 91
Synchronization, of estrus
with a progestin in the ewe, 214
with $PGF_{2\alpha}$ in cows or heifers, 90, 132, 133
with PG analogue ICI 80966, in cows and heifers, 93, 133

Testicular biopsy, stallion, 135
Testosterone, boar
    rise in plasma after ACTH, 172
Trophoblast, in cattle, during implantation, 39

Vaginal secretion
    electrical resistance, during artificial insemination, 135
Vasectomy, man
    circulating antispermatozoa immunoglobulin G, 217